



# M/S E.R. TECHNOLOGIES

(Govt. Contractor of PH & Civil Works & Electrical Works)

(Specialist in: Deep Tube well, Sick Tube well, Geological and Hydro-Geological Survey, Electric Logging of Borehole, Videography of Borehole, Water Sample & Soil Testing etc.)

Ref. ....

Dated..... 04/11/2023

## REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE KULHERI, BLOCK NAKUR, DISRICT SAHARANPUR, UTTAR PRADESH UNDER JAL JEEVAN MISSION

### Introduction:

The borehole at the site was drilled to a depth of 165.00 meters, and the electric logging was conducted up to 158.00-meter depth using a continuous logger on Oct 27, 2023. The purpose of this logging was to assess the various subsurface strata and properties encountered during drilling, with a focus on resistivity measurements (LON -64" and SHN-16) and self-potential (SP) data. This report provides an analysis of the interpreted data and offers recommendations for further actions under the Jal Jeevan Mission.

Name of agency	GA Infra. Pvt Ltd
Location	Kulheri
Block	Nakur
District	Saharanpur, U.P
Depth drilled (mbgl)	165
Depth logged (mbgl)	158
Water level (m)	15
LON -64" Resistivity (N-64)	Ohm.m (Blue)
SHN-16 Resistivity (N-16)	Ohm.m (Red)
Self-Potential (SP)	Mv (Green)

Village Kulheri, Block Nakur , District Saharanpur, U.P						
Sr. No	Depth Range (m)		Zone Thickness(m)	LON -64" N Resistivity (ohm.m)	Probable Strata	Expected water Quality
	From	To				
1	0.00	6.00	6.00	<20	Top Soil	-
2	6.00	13.00	7.00	55	Medium Coarse Sand	-
3	13.00	40.00	27.00	29	Clay	-
4	40.00	63.00	23.00	65	Coarse Sand	-
5	63.00	67.00	4.00	28	Clay	-
6	67.00	77.00	10.00	68	Coarse Sand	Good
7	77.00	80.00	3.00	32	Clay	-
8	80.00	84.00	4.00	64	Coarse Sand	Good
9	84.00	90.00	6.00	36	Clay	-
10	90.00	95.00	5.00	61	Coarse Sand	Good
11	95.00	98.00	3.00	29	Clay	-
12	98.00	113.00	15.00	68	Coarse Sand	Good
13	113.00	115.00	2.00	28	Clay	-
14	115.00	119.00	4.00	69	Coarse Sand	Good

Regd. Office: 7-A Shanti Nagar , Rajpura Sirhind Bye Pass Road, Near St. Xavier's School

Mobile: 98140-33654, 98721-62830 Office Phone: (0175) 2911516

E-mail:- ertechnologies1516@gmail.com



# M/S E.R. TECHNOLOGIES

(Govt. Contractor of PH & Civil Works & Electrical Works)

(Specialist in: Deep Tube well, Sick Tube well, Geological and Hydro-Geological Survey, Electric Logging of Borehole, Videography of Borehole, Water Sample & Soil Testing etc.)

Ref. ....

Dated... 04/10/2023

Village Kulheri, Block Nakur , District Saharanpur, U.P

15	119.00	124.00	5.00	30	Clay	-
<b>16</b>	<b>124.00</b>	<b>131.00</b>	<b>7.00</b>	<b>72</b>	<b>Coarse Sand</b>	<b>Good</b>
17	131.00	134.00	3.00	25	Clay	-
<b>18</b>	<b>134.00</b>	<b>145.00</b>	<b>11.00</b>	<b>70</b>	<b>Coarse Sand</b>	<b>Good</b>
19	145.00	152.00	7.00	40	Fine Sand	-
20	152.00	158.00	6.00	25	Clay	-

## Recommendations:

Based on the interpreted strata data from the electric logging, the following recommendations are provided:

### 1. Screen Installation:

It is recommended to install screens against the **bold-marked strata** indicated in the interpretation above. These screens will help facilitate water inflow from the identified permeable zones.

### 2. Expected Water Quality:

The expected water quality in the zones marked as "Good" is anticipated to be favorable.

### 3. Tubewell Development:

To optimize water yield, it is advised to develop the tubewell using a high-capacity air compressor.

Interpretation Done By...

  
PARKASH KUMAR  
Hydrogeologist

Regd. Office: 7-A Shanti Nagar , Rajpura Sirhind Bye Pass Road, Near St. Xavier's School

Mobile: 98140-33654, 98721-62830 Office Phone: (0175) 2911516

E-mail:- ertechnologies1516@gmail.com